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## **ABSTRACT OF THE DISCLOSURE**

### **METHOD TO PROVIDE EXTERNAL OBSERVABILITY WHEN EMBEDDED FIRMWARE DETECTS PREDEFINED CONDITIONS**

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A method and apparatus for generating a system specific test by providing sophisticated error tracking mechanisms to trigger on a specific system event. The present invention addresses the problem of monitoring network traffic and isolating a point of error at the testing stage. The present invention defines a specific system event to be monitored. A trigger is  
10 created in the host system and routed to the analyzer, wherein the trigger is used to allow the analyzer to capture information related to the specific system event. When a signal is received at the analyzer, the signal automatically triggers the analyzer to capture and store a predetermined amount of data related to the specific system event before and after the trigger is executed.